

L Number	Hits	Search Text	DB	Time stamp
1	0	dinh-tan-thanh-\$.in.	USPAT; US-PGPUB	2002/07/31 09:43
2	2	dinh-tan-thanh-.in.	USPAT; US-PGPUB	2002/07/31 09:43
3	0	tremble-patrice-\$.in.	USPAT; US-PGPUB	2002/07/31 09:44
4	1	tremble-patrice-.in.	USPAT; US-PGPUB	2002/07/31 09:44
5	11	cunanan-crystal-\$.in.	USPAT; US-PGPUB	2002/07/31 09:44
6	0	cunanan-crystal-m-\$.in.	USPAT; US-PGPUB	2002/07/31 09:44
7	11	cunanan-crystal-m-.in.	USPAT; US-PGPUB	2002/07/31 09:44
8	0	may-christine-\$.in.	USPAT; US-PGPUB	2002/07/31 09:44
9	0	may-christine-.in.	USPAT; US-PGPUB	2002/07/31 09:44
10	0	((phospholipid\$1) and (chromatography or tlc)).ti.	USPAT; US-PGPUB	2002/07/31 09:45
11	260	(phospholipid\$1) same (chromatography or tlc)	USPAT; US-PGPUB	2002/07/31 09:46
12	107	((phospholipid\$1) same (chromatography or tlc)) same (thin adj layer)	USPAT; US-PGPUB	2002/07/31 09:46
13	6	((phospholipid\$1) same (chromatography or tlc)) same (thin adj layer)) same ((one adj dimensional) or (one adj way) or (one adj direction))	USPAT; US-PGPUB	2002/07/31 09:50
14	10	((phospholipid\$1) same (chromatography or tlc)) same (thin adj layer)) and 436/71.ccls.	USPAT; US-PGPUB	2002/07/31 09:53
15	147759	((acetic adj acid) or ch3cooh)	USPAT; US-PGPUB	2002/07/31 09:54
16	1613	((acetic adj acid) or ch3cooh)) same ((potassium adj chloride) or kcl)	USPAT; US-PGPUB	2002/07/31 09:54
17	60	((acetic adj acid) or ch3cooh)) same ((potassium adj chloride) or kcl)) same (chromatography or tlc)	USPAT; US-PGPUB	2002/07/31 09:54
18	14	((acetic adj acid) or ch3cooh)) same ((potassium adj chloride) or kcl)) same (chromatography or tlc)) same (solvent\$1 or (mobile adj phase))	USPAT; US-PGPUB	2002/07/31 09:57

WEST Search History

DATE: Wednesday, July 31, 2002

Set Name Query
side by side

Hit Count Set Name
result set

DB=JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L17	L16 and chromatography	7	L17
L16	L15 and ((potassium adj chloride) or kcl)	219	L16
L15	(acetic adj acid) or ch3cooh	46629	L15
L14	L13 and ((one adj dimensional) or (one adj way) or (one adj direction))	0	L14
L13	phospholipid\$1 and (tlc or ((thin adj layer) adj chromatography))	39	L13
L12	wo-9950655-\$.did.	1	L12
L11	wo-9950655-\$.in.	0	L11
L10	wo-0233399-\$.did.	0	L10
L9	wo-02033399-\$.did.	0	L9
L8	wo-2002033399-\$.did.	0	L8
L7	L6 and phospholipid\$1	0	L7
L6	may-c-\$.in.	148	L6
L5	L4 and phospholipid\$1	0	L5
L4	cunanan-c-\$.in.	13	L4
L3	tremble-p-\$.in.	0	L3
L2	L1 and phospholipid\$1	0	L2
L1	dinh-t-\$.in.	24	L1

END OF SEARCH HISTORY

L1 E DINH TAN THANH/AU
 L2 10 S E1-E3
 L2 2 S L1 AND PHOSPHOLIPID?
 E TREMBLE PATRICE/AU
 L3 76 S E1-E5
 L4 1 S L3 AND PHOSPHOLIPID?
 E CUNANAN CRYSTAL M/AU
 L5 16 S E2-E3
 L6 2 S L5 AND PHOSPHOLIPID?
 E MAY CHRISTINE/AU
 L7 1 S E4
 L8 2975 S PHOSPHOLIPID? AND (THIN LAYER CHROMATOGRAPY OR TLC)
 L9 56 S L8 AND (ONE DIMENSIONAL OR ONE WAY OR ONE DIRECTION)
 L10 5 S L9 AND (POTASSIUM CHLORIDE OR KCL)
 L11 2 S L10 AND ACETIC ACID
 L12 3 S L10 NOT L11
 L13 5 S L9 AND PRIMULIN
 L14 3 DUP REMOV L13 (2 DUPLICATES REMOVED)
 L15 51 S L9 NOT L10
 L16 47 S L15 NOT L13
 L17 39 DUP REMOV L16 (8 DUPLICATES REMOVED)
 L18 . 159344 S ACETIC ACID OR CH3COOH
 L19 1278 S L18 AND (POTASSIUM CHLORIDE OR KCL)
 L20 45 S L19 AND (CHROMATOGRAPHY OR TLC)
 L21 14 S L20 AND (SOLVENT? OR MOBILE PHASE?)
 L22 12 DUP REMOV L21 (2 DUPLICATES REMOVED)

=>

lysophosphatidylcholine) and three lysophospholipids (lysophosphatidylserine, lysophosphatidylethanolamine and lysophosphatidylcholine). This is achieved by simple involvement of 0.4% ammonium sulfate in silica gel H and of acetone in a developing solvent as chloroform-methanol-acetic acid-acetone-water (40:25:7:4:2). The procedure is simple and the sepn. is reproducible. The weakness of this method is the partial degrdn. of phosphatidylethanolamine to lysophosphatidylethanolamine, but a method to prevent this degrdn. is also presented.

L12 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
-----------	-------------------

AN 1992:3013 CAPLUS
 DN 116:3013
 TI Comparison of mobile phases for separation of **phospholipids** by **one-dimensional TLC** on preadsorbent high performance silica gel plates
 AU Aloisi, Jacqueline; Fried, Bernard; Sherma, Joseph
 CS Dep. Biol., Lafayette Coll., Easton, PA, 18042, USA
 SO J. Liq. Chromatogr. (1991), 14(18), 3269-75
 CODEN: JLCHD8; ISSN: 0148-3919
 DT Journal
 LA English
 AB Eight solvent systems reported in the literature for the 1-dimensional **TLC** sepn. of **phospholipids** were compared under identical conditions by using high-performance preadsorbent silica gel plates. The best overall sepn. of **phospholipid** stds. was obtained by a single development with chloroform-methanol-water (65:25:4), and 3 other systems contg. chloroform also gave good sepns. Rf Data are tabulated for these 4 systems, and the **phospholipids** extd. from the digestive gland-gonad complex of Biomphalaria glabrata snails are identified.

L12 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS

Full Text	Citing References
-----------	-------------------

AN 1991:181515 CAPLUS
 DN 114:181515
 TI Comparison of mobile phases for separation and quantification of lipids by **one-dimensional TLC** on preadsorbent high performance silica gel plates
 AU Aloisi, Jacqueline D.; Sherma, Joseph; Fried, Bernard
 CS Dep. Biol., Lafayette Coll., Easton, PA, 18042, USA
 SO J. Liq. Chromatogr. (1990), 13(20), 3949-61
 CODEN: JLCHD8; ISSN: 0148-3919
 DT Journal
 LA English
 AB Twenty-four solvent systems reported in the literature for the 1-dimensional **TLC** sepn. of lipids and **phospholipids** were compared under identical conditions by using high-performance preadsorbent silica gel plates. The best overall sepn. of mixts. of neutral lipid and **phospholipid** stds. and compds. extd. from the digestive gland-gonad complex of Biomphalaria glabrata snails was obtained with a system utilizing consecutive development with CHCl₃-MeOH-H₂O (65:25:4), CHCl₃-hexane (3:1), and CCl₄. The best system for quantification of neutral lipids was hexane-Et₂O-HCOOH (80:20:2). Rf Data are tabulated and results discussed for all systems tested.

L12 ANSWER 10 OF 12 MEDLINE

Full Text	Citing References
-----------	-------------------

AN 83111030 MEDLINE
 DN 83111030 PubMed ID: 6822837
 TI Receptor-mediated increases in phosphatidylinositol turnover in neuron-like cell lines.

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

Full Text **Change References**

AN 2002:315200 CAPLUS
 DN 136:291337
 TI Methods for quantitative and qualitative analyses of **phospholipids** using **one-dimensional thin layer chromatography**
 IN Dinh, Tan Thanh; Tremble, Patrice; Cunanan, Crystal M.; Cabiling, Christine May
 PA Edwards Lifesciences Corporation, USA
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002033399	A2	20020425	WO 2001-US32023	20011012
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2000-693186 A 20001019

AB A highly sensitive and specific method for the detection and quantification of lipids is provided. Specifically, methods for the simultaneous detection and quantification of **phospholipids** extd. from mammalian tissues is described. The anal. methods provided disclose a modified **one-dimensional** thin-layer chromatog. technique specifically developed to rapidly and accurately detect and quantify **phospholipids** from mammalian cardiac tissues.

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

Full Text **Change References**

AN 1991:181515 CAPLUS
 DN 114:181515
 TI Comparison of mobile phases for separation and quantification of lipids by **one-dimensional TLC** on preadsorbent high performance silica gel plates
 AU Aloisi, Jacqueline D.; Sherma, Joseph; Fried, Bernard
 CS Dep. Biol., Lafayette Coll., Easton, PA, 18042, USA
 SO J. Liq. Chromatogr. (1990), 13(20), 3949-61
 CODEN: JLCHD8; ISSN: 0148-3919
 DT Journal
 LA English
 AB Twenty-four solvent systems reported in the literature for the 1-dimensional **TLC** sepn. of lipids and **phospholipids** were compared under identical conditions by using high-performance preadsorbent silica gel plates. The best overall sepn. of mixts. of neutral lipid and **phospholipid** stds. and compds. extd. from the digestive gland-gonad complex of Biomphalaria glabrata snails was obtained with a system utilizing consecutive development with CHCl₃-MeOH-H₂O (65:25:4), CHCl₃-hexane (3:1), and CCl₄. The best system for quantification of neutral lipids was hexane-Et₂O-HCOOH (80:20:2). Rf Data are tabulated and results discussed for all systems tested.

=>

dimensional thin-layer chromatography

AU White, Thayer; Bursten, Stuart; Federighi, David; Lewis, Robert A.;
Nudelman, Edward

CS Cell Therapeutics, Inc., Seattle, WA, 98119, USA

SO Analytical Biochemistry (1998), 258(1), 109-117

CODEN: ANBCA2; ISSN: 0003-2697

PB Academic Press

DT Journal

LA English

AB An improvement of current methods is needed for simple, rapid, and precise quantification of cellular lipids, including rare species of biol. active cellular lipids, such as phosphatidic acid (PA) and diradylglycerol (DG). In addn., further anal. of hydrolyzed acyl chains from these species by methods such as gas chromatog. requires complete sepn. Methods have been developed for the quantification of neutral lipids and several **phospholipids** extd. from mammalian cells and sera. Lipid masses were detd. for the major classes of the neutral, nonpolar lipids, and of the **phospholipids**. The lipid classes were sepd. by a multistep thin-layer chromatog. (TLC) procedure in different solvent systems, a method which we have designated as multi-**one-dimensional** thin-layer chromatog. (MOD-TLC). Resolved lipid bands were visualized by the lipophilic dye **primulin** (direct yellow 59) and scanned by an automated laser-fluorescence detector. The mass of each band was detd. by comparing band intensities of unknown samples to diln. curves of authentic stds. With modifications in solvent mixts. and length of sepn. times, the majority of biol. lipids could be resolved and quantified with MOD-TLC methods. Since the detection method is nondestructive, purified lipids could then be recovered by scraping the visualized bands and extg. the lipids from the silica. The structural identities of the recovered lipids were confirmed by fast-atom bombardment and electrospray mass spectrometry. Extd. lipids were also hydrolyzed to release acylchains and acyl chain species were detd. in comparison to authentic stds. by gas chromatog. PA and DG levels in ECV.304 cells were found to be 4.6 and 3.3%, resp., of PC levels, with a PA/DG ratio of 1.4, which is in accord with published experience using other methods and different cell types. PA in human serum was detected at 0.6% of PC, indicating the sensitivity of the technique. In contrast to two-dimensional thin-layer chromatog., which allows for good resoln. of some lipid species, but cannot be used to analyze more than a single exptl. point per plate, MOD-TLC allows for direct comparative anal. of multiple samples on a single TLC plate, while still providing good resoln. for the quantification of most major classes of lipid species.

=>

UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-693186 A 20001019

AB A highly sensitive and specific method for the detection and quantification of lipids is provided. Specifically, methods for the simultaneous detection and quantification of **phospholipids** extd. from mammalian tissues is described. The anal. methods provided disclose a modified **one-dimensional** thin-layer chromatog. technique specifically developed to rapidly and accurately detect and quantify **phospholipids** from mammalian cardiac tissues.

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

Full Citing
 Text References

AN 1999:641071 CAPLUS

DN 131:269265

TI Methods of separation and detection of hydrophobic target molecules by multiple **one-dimensional** thin layer chromatography

IN White, Thayer; Nudelman; Edward D.

PA Cell Therapeutics, Inc., USA

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9950655	A1	19991007	WO 1999-US6803	19990330
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9934548	A1	19991018	AU 1999-34548	19990330
	US 6331254	B1	20011218	US 1999-465678	19991217
PRAI	US 1998-49941	A1	19980330		
	WO 1999-US6803	W	19990330		

AB Methods which employ thin layer chromatog. for sepg. and detecting hydrophobic target mols. are particularly useful in sepg. biol. relevant lipids. By utilizing non-destructive detection techniques, these methods also can be adapted to further quantification or structural anal. Lipids extd. from ECV.304 cells and from pooled human serum samples were sepd. by multiple **one-dimensional** (MOD) TLC sequentially using chloroform-methanol-acetic acid (90:10:1, vol./vol./v), hexane-diethylether-acetone (60:40:5, vol./vol./v), hexane-diethylether (97:3, vol./vol.), and hexane (100%) as the mobile phases, all run in the same direction. The dried plates were sprayed with **Primulin** dye soln. and scanned by laser-excited fluorescent detection.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

DUPLICATE 1

Full Citing
 Text References

AN 1998:236214 CAPLUS

DN 129:2268

TI High-resolution separation and quantification of neutral lipid and **phospholipid** species in mammalian cells and sera by multi-one-